

Tough 60C White

Production Rigid

White plastic for long-term use parts with a good combination of impact strength, elongation, and tensile strength.



Applications

- Clinical trials and medical devices such as tools, handles, and small plastic parts
- Load-bearing parts such as handles, cranks, knobs, and levers
- Structural parts like brackets, snap-fits, and custom fasteners
- Small parts requiring detail and accuracy in consumer products, wearable devices, and general use
- Functional



Physical Properties

| | |
|--------|-------|
| Colour | White |
| Type | ABS |

Mechanical Properties

| | | TEST/ISO |
|--------------------------------------|------------------------------|------------|
| Solid Density | 1.23 g/cm³ | ASTM D792 |
| Tensile Strength (MPa) | 35 | ASTM D638 |
| Tensile Modulus (MPa) | 1500 | |
| Elongation at Break (%) | 23 | |
| Elongation at Yield (%) | 7.1 | |
| Flexural Strength (MPa) | 52 | ASTM D790 |
| Flexural Modulus (MPa) | 1500 | |
| Notched Izod Impact Strength (J/m) | 34 | ASTM D256 |
| Unnotched Izod Impact Strength (J/m) | 90 | ASTM D4812 |
| Heat Deflection Temperature (°C) | | ASTM D648 |
| @ 0.455 MPA | | |
| @ 1.82 MPA | | |
| Shore Hardness | 79D | ASTM D2240 |
| 24hr Water Absorption (%) | 0.61 | ASTM D570 |

Electrical

| | | |
|----------------------------------|-----------------------------|-----------|
| Dielectric Strength (kV/mm) @3mm | 13 | ASTM D149 |
| Dielectric Constant @ 1MHz | 3.79 | ASTM D150 |
| Dissipation Factor @ 1MHz | 0.033 | |
| Volume Resistivity (ohm-cm) | 2.45x10¹⁵ | ASTM D257 |

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